

Application No. 09/884,115
Reply to Office Action of March 24, 2004.

IN THE CLAIMS

Please amend the claims as follows:

Listing of Claims:

Claim 1. (Previously Presented) A high voltage treatment equipment for liquid comprising:

a pair of electrodes, at least one electrode out of said pair of electrodes being arranged so as to be dipped into liquid; and

means for applying a pulsed power between electrodes of said pair of electrodes, wherein said pair of electrodes are constituted so that a region whose field strength is raised to a value larger than 500 kV/cm is present in the vicinity of said at least one electrode dipped into said liquid.

Claim 2. (Previously Presented) A high voltage treatment equipment for liquid comprising:

a pair of electrodes, at least one electrode out of said pair of electrodes being arranged so as to be dipped into liquid; and

means for applying a pulsed power between electrodes of said pair of electrodes, wherein at least one electrode dipped into said liquid is a rod shaped electrode whose diameter is not more than 1 mm.

Claim 3. (Original) The high voltage treatment equipment for liquid according to claim 2, wherein voltage of said pulsed power is not more than 100 kV.

Claim 4. (Previously Presented) The high voltage treatment equipment for liquid according to claim 2, wherein an extreme end of said rod shaped electrode is formed to be hemisphere.

Claim 5. (Previously Presented) The high voltage treatment equipment for liquid according to claim 2, wherein said rod shaped electrode is an anode electrode.

Claims 6-7. (Cancelled)

Claim 8. (Previously Presented) A high voltage treatment equipment for liquid comprising:

a pair of electrodes, at least one electrode out of said pair of electrodes being arranged so as to be dipped into liquid, wherein at least one of said electrodes is a rod shaped electrode whose diameter is not more than 1 mm;

means for applying a pulsed power between electrodes of said pair of electrodes; and

a movement mechanism for moving at least one electrode dipped into said liquid so as to change a relative position with respect to the other electrode.

Claim 9. (Cancelled)

Claim 10. (Previously Presented) The high voltage treatment equipment according to claim 8, wherein the other electrode is a tubular or ring shaped electrode, and a relative positional relationship between said rod shaped electrode and said tubular or ring shaped electrode can be changed while maintaining a state that said rod shaped electrode passes a center point or an axial center of said tubular or ring shaped electrode.

Claim 11. (Previously Presented) The high voltage treatment equipment according to claim 10, wherein an end of said rod shaped electrode is positioned in the vicinity of the tubular or ring shaped electrode.

Claim 12. (Previously Presented) The high voltage treatment equipment according to claim 10 wherein, said rod shaped electrode is moved by said movement mechanism.

Claim 13. (Original) The high voltage treatment equipment according to claim 12, wherein said movement mechanism is a winding mechanism, which winds the linear electrode.

Claim 14. (Original) The high voltage treatment equipment according to claim 8, further comprising:

means for measuring a discharge voltage or a discharge current to said liquid; and control means for controlling a movement speed of a relative position of an electrode by said movement mechanism on the basis of the value measured by said means for measuring a discharge voltage or a discharge current.

Claim 15. (Original) The high voltage treatment equipment according to claim 8, further comprising:

means for measuring the flow rate, conductivity or impedance of said liquid; and control means for controlling a value of voltage applied by said means for applying the high voltage on the basis of the value measured by said means for measuring the flow rate, conductivity or impedance of liquid.

Claim 16-21. (Cancelled)

Claim 22. (Previously Presented) A high voltage treatment equipment for liquid comprising:

a pair of electrodes, at least one electrode out of said pair of electrodes being arranged so as to be dipped into liquid; and

means for applying a pulsed power between electrodes of said pair of electrodes, wherein at least one electrode dipped into said liquid is a rod shaped electrode whose diameter is not more than 1 mm, whereby a field strength of a region in the vicinity of said at least one electrode may have a value larger than 500 kV/cm.

Claim 23. (Previously Presented) A high voltage treatment equipment for liquid comprising:

a pair of electrodes, at least one electrode out of said pair of electrodes being arranged so as to be dipped into liquid; and

means for applying a pulsed power between electrodes of said pair of electrodes, wherein at least one electrode dipped into said liquid is a rod shaped electrode whose diameter is not more than 1 mm, whereby a field strength of a region in the vicinity of said at least one electrode may have a value larger than 500 kV/cm at a voltage of not more than 100 kV.